

#### ABSTRACT OF THE DISCLOSURE

A high-isolated wavelength managing module, having four ports, has at least a first, a second and a third wavelength managing modules, and the optical circulators comprise a first and a second optical circulators. The first wavelength managing 5 module receives and carries first optical signals with different wavelengths, and the third wavelength managing module receives and carries second optical signals with different wavelengths, the first and the second optical signals are transmitted in opposite direction and with different wavelengths. The first optical circulator is connected between the first and the third wavelength managing module and the second optical 10 circulator is connected between the second and the third wavelength managing module. Further, the third wavelength managing module can be omitted and the first and the second optical circulator are directly connected. In addition, the high-isolated wavelength managing module can also comprise a number of wavelength managing modules with self-loops and a wavelength managing module without self-loops.

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